

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 101092,947A

CRF Processing Date: 01/10/03
 Edited by: DC
 Verified by: DC (STIC staff)

0570 01R
 1213
 #11

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,947A

DATE: 01/10/2003^{P16}
TIME: 09:53:53

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\01102003\J092947A.raw

3 <110> APPLICANT: WOLFF, Anne M
 4 APPEL, Karen F
 5 PETERSEN, Jesper F
 6 POULSEN, Ulla
 7 ARNAU, Jose
 8 JACOBSEN, Mette D
 10 <120> TITLE OF INVENTION: MUCOR RECOMBINANT GENE EXPRESSION
 12 <130> FILE REFERENCE: WOLFF=3
 14 <140> CURRENT APPLICATION NUMBER: 10/092,947A
 C--> 15 <141> **CURRENT FILING DATE: 2002-12-27**
 17 <150> PRIOR APPLICATION NUMBER: US 60/274,650
 18 <151> PRIOR FILING DATE: 2001-03-12
 20 <160> NUMBER OF SEQ ID NOS: 65
 22 <170> SOFTWARE: PatentIn version 3.2
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 2525
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Mucor circinelloides
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 31 <221> NAME/KEY: CDS
 32 <222> LOCATION: (542)..(724)
 33 <223> OTHER INFORMATION: Exon of pkar
 35 <220> FEATURE:
 36 <221> NAME/KEY: Intron
 37 <222> LOCATION: (725)..(795)
 38 <223> OTHER INFORMATION: Intron of pkar
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 41 <221> NAME/KEY: CDS
 42 <222> LOCATION: (796)..(1707)
 43 <223> OTHER INFORMATION: Exon of pkar
 45 <220> FEATURE:
 46 <221> NAME/KEY: misc_feature
 47 <222> LOCATION: (798)..(798)
 48 <223> OTHER INFORMATION: n is a, c, g or t
 50 <220> FEATURE:
 51 <221> NAME/KEY: Intron
 52 <222> LOCATION: (1708)..(1760)
 53 <223> OTHER INFORMATION: Intron of pkar
 55 <220> FEATURE:
 56 <221> NAME/KEY: CDS
 57 <222> LOCATION: (1761)..(1928)
 58 <223> OTHER INFORMATION: Exon of pkar
 60 <400> SEQUENCE: 1

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,947A

DATE: 01/10/2003

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Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\01102003\J092947A.raw

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61 aagcttttatt catttcactg gtcaacgttaa gtacatttct ctcagtattg gtcgctttta 60
63 tatcatcttt ttggctgctt tacgtgatga acaaaacatt atgctactaa acccagctca 120
65 gtttgagata ttcgggtgaaa gaaactattt ccataactga aaaagttaaa ccaaaaagat 180
67 atatgaaaat gatacattta cttgttcatt tgagctccat attaatcctc ttctcctcta 240
69 gttggcatgt ctttttgcaa gccaaagcta cctatagctc aggtctatta gatgtatcat 300
71 cttgatcttt tttgaattga ataaataaat ttcttgatt ttaaaatgta acactttaat 360
73 gcctaatttc tgcgtgcaat gtcgtttttt ttctgtgat aaccctgaac tgctcaaagt 420
75 ctttcatgat gtcatctcat aatctgttgg gttacatcca atactgttaa attgtatgtg 480
77 ttgatcttga gtataaggga tcgatcattt gattgtcttt ttctctccta ttttcattaa 540
79 a atg atc act gac gaa cat ccg ttt gaa ttt gcg cct cag caa gat gaa 589
80 Met Ile Thr Asp Glu His Pro Phe Glu Phe Ala Pro Gln Gln Asp Glu
81 1 5 10 15
83 tac acg cag ctg ttg aca gag tta cat aac gaa tac tgc gct gag caa 637
84 Tyr Thr Gln Leu Thr Glu Leu His Asn Glu Tyr Cys Ala Glu Gln
85 20 25 30
87 cca cta gat gtg ctt cag ttc tgc tcc aac ttt ttc att cgc aaa ctc 685
88 Pro Leu Asp Val Leu Gln Phe Cys Ser Asn Phe Phe Ile Arg Lys Leu
89 35 40 45
91 gaa gag cag cgc ttg gag cat aga aac aac cac cat tcc cgtaacaact 734
92 Glu Glu Gln Arg Leu Glu His Arg Asn Asn His His Ser
93 50 55 60
95 tgtttgatag taaagtgtct ctgccacgag cctagtgtatg gatgctaacg tttttcctta 794
W--> 97 g ccn aat gat acc agt aat gat tta cat cct ttg tgt gag caa cca caa 843
98 Pro Asn Asp Thr Ser Asn Asp Leu His Pro Leu Cys Glu Gln Pro Gln
99 65 70 75
101 gaa gac ttt tca caa cag caa ggc atc cag tgg gaa acc acg cat atg 891
102 Glu Asp Phe Ser Gln Gln Gln Gly Ile Gln Trp Glu Thr Thr His Met
103 80 85 90
105 ggc cat ccc aac gac cac ggt gct ctt cat gat gat gat gat gat ccg 939
106 Gly His Pro Asn Asp His Gly Ala Leu His Asp Asp Asp Asp Asp Pro
107 95 100 105
109 ttg gaa gac gaa gac gat gaa gag ttt gac aaa ttt tca act gaa cct 987
110 Leu Glu Asp Glu Asp Asp Glu Glu Phe Asp Lys Phe Ser Thr Glu Pro
111 110 115 120 125
113 ttg ccc tcg ctg cct ccc aca aac tat aac cgt ggc cgc cgc aca tct 1035
114 Leu Pro Ser Leu Pro Pro Thr Asn Tyr Asn Arg Gly Arg Arg Thr Ser
115 130 135 140
117 gtt aag tgc aga gag cat ggc acc cag cgc caa cca aga ctt tgt caa 1083
118 Val Lys Cys Arg Glu His Gly Thr Gln Arg Gln Pro Arg Leu Cys Gln
119 145 150 155
121 ggt cat cat ccc caa atc tca ggc aca agc gag cgc atc aaa gtc tcc 1131
122 Gly His His Pro Gln Ile Ser Gly Thr Ser Glu Arg Ile Lys Val Ser
123 160 165 170
125 atc agc aac aac ttt ttg ttt cgc aac ctg gac gaa gag cag tac ctg 1179
126 Ile Ser Asn Asn Phe Leu Phe Arg Asn Leu Asp Glu Glu Gln Tyr Leu
127 175 180 185
129 gat gtg gtg aat gcc atg tct gaa aag cgc gtc gtc aag ggc acc aca 1227
130 Asp Val Val Asn Ala Met Ser Glu Lys Arg Val Val Lys Gly Thr Thr
131 190 195 200 205

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Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\01102003\J092947A.raw

133	gtg atc gag caa ggc agt gtg ggt gat ttc ttc tac gtc gtc gag tcg	1275
134	Val Ile Glu Gln Gly Ser Val Gly Asp Phe Phe Tyr Val Val Glu Ser	
135	210 215 220	
137	ggt act ttg gat tgt ttt att ggg caa aac aag gtt acc aac tat gag	1323
138	Gly Thr Leu Asp Cys Phe Ile Gly Gln Asn Lys Val Thr Asn Tyr Glu	
139	225 230 235	
141	gca ggt ggt agc ttc ggt gaa tta gcc tta atg tac aac gcc cct cgt	1371
142	Ala Gly Gly Ser Phe Gly Glu Leu Ala Leu Met Tyr Asn Ala Pro Arg	
143	240 245 250	
145	gct gct act att att aca aca tca gac tct gtg ctt tgg gct ctg gac	1419
146	Ala Ala Thr Ile Ile Thr Thr Ser Asp Ser Val Leu Trp Ala Leu Asp	
147	255 260 265	
149	aga aac act tcg gca cca tcc ttg atg gag aac acc tca cgc aaa aga	1467
150	Arg Asn Thr Ser Ala Pro Ser Leu Met Glu Asn Thr Ser Arg Lys Arg	
151	270 275 280 285	
153	cgc atg tat gaa tac ttc tta tca gaa gtc gtc ttg tta aaa tcc ctg	1515
154	Arg Met Tyr Glu Tyr Phe Leu Ser Glu Val Val Leu Leu Lys Ser Leu	
155	290 295 300	
157	gaa tca tat gaa cag cat aaa att gcg gat gcc ctc gaa tca gtt tat	1563
158	Glu Ser Tyr Glu Gln His Lys Ile Ala Asp Ala Leu Glu Ser Val Tyr	
159	305 310 315	
161	ttt gaa gat gga cag gag gtt gtg aag cag ggt gat gtc gga gat cag	1611
162	Phe Glu Asp Gly Gln Glu Val Val Lys Gln Gly Asp Val Gly Asp Gln	
163	320 325 330	
165	ttc tac atc att gaa tcc ggt gaa gcc atc gtc ctg aag gaa gag aac	1659
166	Phe Tyr Ile Ile Glu Ser Gly Glu Ala Ile Val Leu Lys Glu Glu Asn	
167	335 340 345	
169	ggc gtc cag caa cag gtg aac cag ctt gag cga gga tcc tac ttt gga	1707
170	Gly Val Gln Gln Gln Val Asn Gln Leu Glu Arg Gly Ser Tyr Phe Gly	
171	350 355 360 365	
173	ggtaagatgg agcttggttg ggttggtgat gtgtcgctaa ccactgtgtg ata gaa	1763
174	Glu	
177	ctg gcc ctg tta aac gat gct cct cga gct gca acc gta gtt gct cac	1811
178	Leu Ala Leu Leu Asn Asp Ala Pro Arg Ala Ala Thr Val Val Ala His	
179	370 375 380	
181	ggc aga ctc aag tgc gct aca ctg ggc aaa aag gca ttc act cgt ctt	1859
182	Gly Arg Leu Lys Cys Ala Thr Leu Gly Lys Lys Ala Phe Thr Arg Leu	
183	385 390 395	
185	ctt ggc cct gtt ttg gac atc ttg aag cgt aat tca gaa aac tat cat	1907
186	Leu Gly Pro Val Leu Asp Ile Leu Lys Arg Asn Ser Glu Asn Tyr His	
187	400 405 410	
189	gct gtc att aac cag caa tca taatcgacc aaaaagttac actagatttc	1958
190	Ala Val Ile Asn Gln Gln Ser	
191	415 420	
193	aaataaaaac catggatact ttccgatctg atgttgactt gactgtaaca aagcgacagg	2018
195	aaaaagaaac ttgatttgct tcctgaccaa caatgcagcc aatctcctta aacaagatgc	2078
197	tctctatttc ggccctgaaaa tataacctcc ttgatttcgt attttgktgt tgtgcttttt	2138
199	tccctctctc tctctctctc ttttcactct tgttataaaa aaaatatgac gggtatgatt	2198
201	cacagtatgg agagcaaccc ttgatgagcc tccacctcaa agcgccagcg gcctcttcta	2258

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Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\01102003\J092947A.raw

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203 atctgcctgg cacaggtatt gccaatctac caaatcaaag acacaagatt gttgccaaaa 2318
205 atggcgccaa tttcaccatc atggtttgtg gtaagacata tgtatacttg caagtgaaag 2378
207 gaccaggtaa ctgaattttg cttaggtgaa tcgggtgtcg gaaaaacaac ctttgtaaac 2438
209 acactgttca catccacat caaggagcca aagaacctga caaagagaca tctcaagaca 2498
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214 <210> SEQ ID NO: 2
215 <211> LENGTH: 421
216 <212> TYPE: PRT
217 <213> ORGANISM: Mucor circinelloides
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222 1 5 10 15
225 Tyr Thr Gln Leu Leu Thr Glu Leu His Asn Glu Tyr Cys Ala Glu Gln
226 20 25 30
229 Pro Leu Asp Val Leu Gln Phe Cys Ser Asn Phe Phe Ile Arg Lys Leu
230 35 40 45
233 Glu Glu Gln Arg Leu Glu His Arg Asn Asn His His Ser Pro Asn Asp
234 50 55 60
237 Thr Ser Asn Asp Leu His Pro Leu Cys Glu Gln Pro Gln Glu Asp Phe
238 65 70 75 80
241 Ser Gln Gln Gln Gly Ile Gln Trp Glu Thr Thr His Met Gly His Pro
242 85 90 95
245 Asn Asp His Gly Ala Leu His Asp Asp Asp Asp Asp Pro Leu Glu Asp
246 100 105 110
249 Glu Asp Asp Glu Glu Phe Asp Lys Phe Ser Thr Glu Pro Leu Pro Ser
250 115 120 125
253 Leu Pro Pro Thr Asn Tyr Asn Arg Gly Arg Arg Thr Ser Val Lys Cys
254 130 135 140
257 Arg Glu His Gly Thr Gln Arg Gln Pro Arg Leu Cys Gln Gly His His
258 145 150 155 160
261 Pro Gln Ile Ser Gly Thr Ser Glu Arg Ile Lys Val Ser Ile Ser Asn
262 165 170 175
265 Asn Phe Leu Phe Arg Asn Leu Asp Glu Glu Gln Tyr Leu Asp Val Val
266 180 185 190
269 Asn Ala Met Ser Glu Lys Arg Val Val Lys Gly Thr Thr Val Ile Glu
270 195 200 205
273 Gln Gly Ser Val Gly Asp Phe Phe Tyr Val Val Glu Ser Gly Thr Leu
274 210 215 220
277 Asp Cys Phe Ile Gly Gln Asn Lys Val Thr Asn Tyr Glu Ala Gly Gly
278 225 230 235 240
281 Ser Phe Gly Glu Leu Ala Leu Met Tyr Asn Ala Pro Arg Ala Ala Thr
282 245 250 255
285 Ile Ile Thr Thr Ser Asp Ser Val Leu Trp Ala Leu Asp Arg Asn Thr
286 260 265 270
289 Ser Ala Pro Ser Leu Met Glu Asn Thr Ser Arg Lys Arg Arg Met Tyr
290 275 280 285
293 Glu Tyr Phe Leu Ser Glu Val Val Leu Leu Lys Ser Leu Glu Ser Tyr
294 290 295 300
297 Glu Gln His Lys Ile Ala Asp Ala Leu Glu Ser Val Tyr Phe Glu Asp

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RAW SEQUENCE LISTING

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DATE: 01/10/2003

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Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\01102003\J092947A.raw

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298 305          310          315          320
301 Gly Gln Glu Val Val Lys Gln Gly Asp Val Gly Asp Gln Phe Tyr Ile
302          325          330          335
305 Ile Glu Ser Gly Glu Ala Ile Val Leu Lys Glu Glu Asn Gly Val Gln
306          340          345          350
309 Gln Gln Val Asn Gln Leu Glu Arg Gly Ser Tyr Phe Gly Glu Leu Ala
310          355          360          365
313 Leu Leu Asn Asp Ala Pro Arg Ala Ala Thr Val Val Ala His Gly Arg
314          370          375          380
317 Leu Lys Cys Ala Thr Leu Gly Lys Lys Ala Phe Thr Arg Leu Leu Gly
318 385          390          395          400
321 Pro Val Leu Asp Ile Leu Lys Arg Asn Ser Glu Asn Tyr His Ala Val
322          405          410          415
325 Ile Asn Gln Gln Ser
326          420
329 <210> SEQ ID NO: 3
330 <211> LENGTH: 634
331 <212> TYPE: DNA
332 <213> ORGANISM: Mucor circinelloides
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337 <222> LOCATION: (1)..(273)
338 <223> OTHER INFORMATION: Exon of ste20
340 <220> FEATURE:
341 <221> NAME/KEY: misc_feature
342 <222> LOCATION: (69)..(69)
343 <223> OTHER INFORMATION: n is a, c, g, or t
345 <220> FEATURE:
346 <221> NAME/KEY: Intron
347 <222> LOCATION: (274)..(327)
349 <220> FEATURE:
350 <221> NAME/KEY: misc_feature
351 <222> LOCATION: (326)..(326)
352 <223> OTHER INFORMATION: n is a, c, g, or t
354 <220> FEATURE:
355 <221> NAME/KEY: CDS
356 <222> LOCATION: (328)..(633)
357 <223> OTHER INFORMATION: Exon of ste20
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361 Ser Ala Ser Asn Arg Met Pro Lys Arg Leu Val Glu Thr Ala Glu Pro
362 1          5          10          15
W--> 364 tcg cct tca tct caa aca arn atg gac gat ttt gaa atc aaa cag cca      96
W--> 365 Ser Pro Ser Ser Gln Thr Xaa Met Asp Asp Phe Glu Ile Lys Gln Pro
366          20          25          30
368 ata ggt aac aga tgg acg gca tct gca tgt act gtt act gat aga cac      144
369 Ile Gly Asn Arg Trp Thr Ala Ser Ala Cys Thr Val Thr Asp Arg His
370          35          40          45
372 ctg ctt caa ggc tac gga tca tct gcc atg gtt tat agc gca gtg tat      192

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/092,947A

DATE: 01/10/2003
TIME: 09:53:54

Input Set : A:\PTO.DC.txt
Output Set: N:\CRF4\01102003\J092947A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 798
Seq#:3; N Pos. 69,326
Seq#:3; Xaa Pos. 23
Seq#:4; Xaa Pos. 23
Seq#:15; N Pos. 3,18,21
Seq#:16; N Pos. 4,7,10,16,19
Seq#:19; N Pos. 3,9,12,18
Seq#:20; N Pos. 7,13,19
Seq#:21; N Pos. 13,31
Seq#:22; N Pos. 9
Seq#:23; N Pos. 10,13,16
Seq#:24; N Pos. 2059,2333,2334
Seq#:26; N Pos. 12,15,18,21,24,27
Seq#:27; N Pos. 3,6,9,12,18
Seq#:28; N Pos. 3,9,12,15,18
Seq#:29; N Pos. 9,18
Seq#:30; N Pos. 4,10,13
Seq#:62; Xaa Pos. 3,5,6,8,10,11
Seq#:63; Xaa Pos. 3,5,6,7,8,10,12,13
Seq#:64; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,14,15,16,17,18,19,20,21,22,23,24,25
Seq#:64; Xaa Pos. 26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44
Seq#:64; Xaa Pos. 45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
Seq#:64; Xaa Pos. 64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82
Seq#:64; Xaa Pos. 83,84,85,88,90,91,92,93,94,95,96,97,98
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Seq#:65; Xaa Pos. 26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44
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Seq#:65; Xaa Pos. 64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82
Seq#:65; Xaa Pos. 83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,102
Seq#:65; Xaa Pos. 104,105,106,107,108,109,110,111,112

VERIFICATION SUMMARY

DATE: 01/10/2003

PATENT APPLICATION: US/10/092,947A

TIME: 09:53:54

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\01102003\J092947A.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:794
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:48
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:96
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:293
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:1197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:1320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:1343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:1361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:1389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:1553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:2005
L:1563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:2305
L:1705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:1743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:1781 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:1804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:1832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:3875 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:3910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:3945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:3949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:16
L:3953 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:32
L:3957 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:48
L:3961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:64
L:3965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:80
L:3969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:96
L:4004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
L:4008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:16
L:4012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:32
L:4016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:48
L:4020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:64
L:4024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:80
L:4028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:96